Stakeholder Workshop #1 Bear Creek Watershed-Scale Stormwater Plan

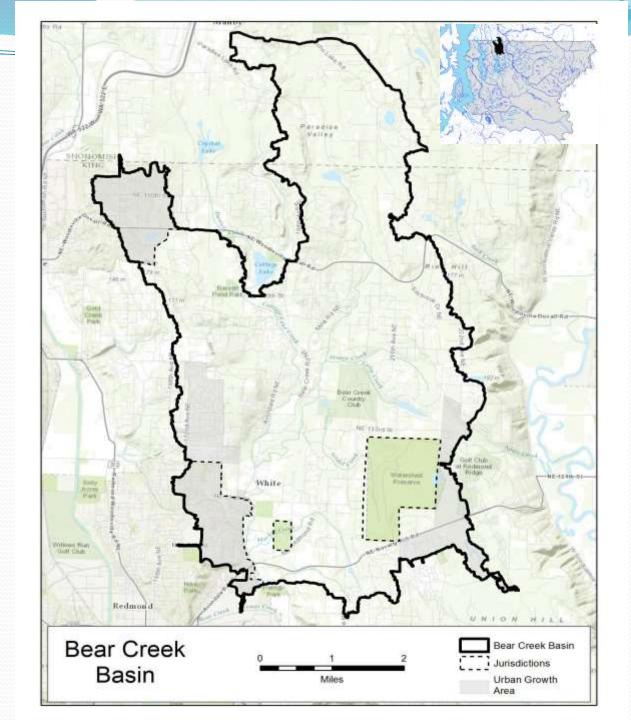
Jeff Burkey King County Department of Natural Resources and Parks November 4, 2015

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Bear Creek Watershed* and Partners

- King County (Lead)
- Snohomish County
- City of Redmond
- City of Woodinville
- Washington State



Project Goals & Objectives

Conditions

- Mostly built before modern stormwater standards
- Redevelopment pressures
- High quality, but has known WQ problems

Goal

 Restore Bear Creek so that it provides healthy aquatic habitat for Chinook salmon and other species now and into the future.

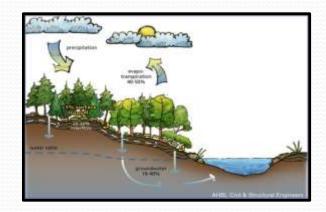
Primary Objective

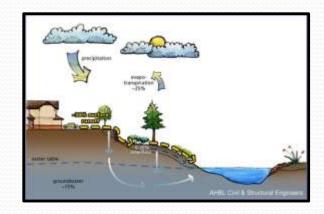
 Identify a stormwater management strategy or strategies that would result in hydrologic, water quality, and stream channel habitat conditions that fully support existing and designated uses.



How are we doing this?

- Existing Conditions Assessment
 - hydrologic, geomorphic, biologic, chemistry
- Build calibrated watershed models (water quantity/quality)
 - Project necessary stormwater retrofit and policy changes
 - Identify in-stream and near shore restoration and preservation needs
- Create an Implementation Plan and Schedule





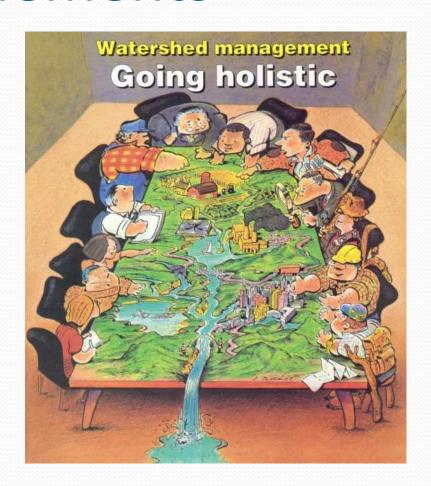
How is this effort different?

- It's a tailored plan to address the needs of Bear Creek
- Cross jurisdictional watershed planning
- More explicitly ties stormwater management to land use that supports salmon recovery efforts



Watershed Plan Elements

- Assessment of Existing Conditions
 - Stormwater and Habitat
- Mapping
- Model Development
- Assessment of Historical and Future Conditions
- Develop Stormwater and Habitat Strategies
- Develop Implementation Plan and Schedule
- A Watershed Plan!!

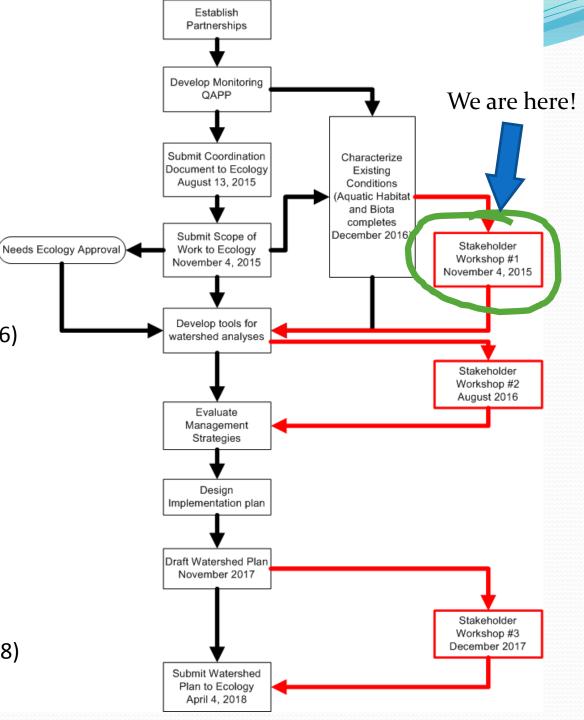


Project Milestones

Form Partnerships (Completed)

Storm Monitoring (January 2016)

- Mapping (September 2016)
- Model Development (September 2016)
- Existing Conditions Assessment (December 2016)
- Stormwater Management Strategies and Draft Implementation Plan (March 2017)
- Final Watershed Plan (April 2018)



Anticipated Plan Outcomes

- Suggested Updates to King County Stormwater Design Manual
 - Thresholds
 - Standards
- Identification of Capital Improvement Projects
 - Stormwater (e.g., regional, distributed)
 - Habitat
- Land use management activities





A. In your table groups, do you generally agree with the stated goals? Is there something missing?

- B. What can this plan do for you or your organization? How do you envision using this in your work?
- C. How important is this plan to your work? Scale of 1-5 with 5 being highest.
- D. What concerns do you have given some of the possible outcomes from this watershed plan?

Climate Change

- Contract with UW CIG (Bothell and Seattle) 2015-2017
- Funded by WTD and Ecology*
- Identify top 10 accurate GCM models for PNW
- Use new IPCC emission scenarios (RCP 4.5 and RCP 8.5 [W/m² at 2100])
- Statistical and Dynamic (WRF) downscale to King County lowlands
- Characterize projections of future rainfall relevant for WTD to assess potential impacts on operations. Include results in next RWSP update (2018).
- Characterize projections of future rainfall relevant for assessing impacts on Stormwater mitigation design standards. Develop guidance document for next KCSWDM update (2019)
- Deliverables include: hourly rainfall 1980-2099 for at least two climate scenarios (High-high, Low-low)
- Other projects starting include King County River Assessments
- Other jurisdictions Partnering up in the Puget Sound Region?

Thank You All!

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Bear Creek Watershed-Scale Stormwater Plan

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